BRUHAT BANAGLORE MAHANAGARA PALIKE

Executive Engineer,yelahanka project Division

Detailed Estimate

Name of Work : Improvements and Repairs of Exsiting Crematorium building at Hebbal in yelahanka zone.

			Estimate Amount :				2200000.00		
Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
1	KSRB 2-1.1 : Earthwork in surface excavation in ordinary soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled after breaking of clods and neatly dressed as per specifications. specification. No. KBS 2.1(a) / 2.3.1. (Page No 5., I.No.2.1 of KPWD S.R 2016-17).								
		cum							
	Desilting of Sourrounding drains								
			1	250.00	0.60	0.45	67.50		
						Total	67.50	166.42	11234.00
	Basic rate	157.00							
	A.W (6%)	9.42							
	Total rate	166.42							
2	KSRB 2-1.2 : Earthwork in surface excavation in Hard soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled after breaking of clods and neatly dressed as per specifications. specification. No. KBS 2.1(a) / 2.3.1. (Page No 5., I.No.2.2 of KPWD S.R 2016-17).								
		cum							
	Compound wall								
			1	90.00	1.20	1.10	118.80		
						Total	118.80	233.20	27705.00
	Basic rate	220.00							
	A.W (6%)	13.20							
	Total rate	233.20							
3	KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (Page No 12., I.No.4.3 of KPWD S.R 2016-17).								
		cum							
	Compound wall								
			1	90.00	1.20	0.15	16.20		
						Total	16.20	5159.02	83577.00
	Basic rate	4867.00							
	A.W (6%)	292.02							
	Total rate	5159.02							
4	KSRB 5.1-2 : Providing and constructing granite / trap / basalt rubble stone masonry in foundation with cement mortar 1:8 (uncoursed), bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.12(Page No 23., I.No.5.2 of KPWD S.R 2016-17).								
		cum							
	Compound wall								
			1	90.00	0.90	0.45	36.45		
			1	90.00	0.60	0.45	24.30		
						Total	60.75	3256.32	197822.00
	Basic rate	3072.00							
	A.W (6%)	184.32							
	Total rate	3256.32							

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
5	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13(Page No 23., I.No.5.9 of KPWD S.R 2016								
		cum							
	Compound wall								
			1	90.00	0.45	2.00	81.00		
						Total	81.00	5305.30	429730.00
	Basic rate	5005.00							
	A.W (6%)	300.30							
	Total rate	**5305.30**							
6	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (Page No 12., I.No.4.6 of KPWD S.R 2016-17).								
		cum							
	Compound wall								
			1	90.00	0.30	0.15	4.05		
			1	90.00	0.60	0.15	8.10		
						Total	12.15	5767.46	70075.00
	Basic rate	5441.00							
	A.W (6%)	326.46							
	Total rate	**5767.46**							
7	KSRB 15.1.3 – do – Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications.(Page No 12., I.No.15.3 of KPWD								
		Sqm							
	Compound wall								
			2	90.00		2.00	360.00		
						Total	360.00	103.88	37397.00
	Basic rate	98.00							
	A.W (6%)	5.88							
	Total rate	**103.88**							
8	KSRB15-3.10 : Providing 20mm thick cement plaster in single coat with cement mortar 1:3, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.(Page No 114., I.No.15.18 of KPWD S.R 2016-17).								
		Sqm							
	For Patches								
	Lump sum						200.00		
						Total	200.00	274.54	54908.00
	Basic rate	259.00							
	A.W (6%)	15.54							
	Total rate	**274.54**							
9	KSRB 24-2 : Extra for removing white wash or colour wash by steel brushing and / or scraping, sand papering the ceiling and / or sloping roof surface smooth including repairs to scraches, cost of labour, complete as per specifications.								
		Sqm							
	Inside Quantity						800.00		
	Outside Quantity						1100.00		
						Total	1900.00	6.36	12084.00
	Basic rate	6.00							
	A.W (6%)	0.36							
	Total rate	**6.36**							

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
10	KSRB 15-13.5 : Providing and applying one coat on old surface dry distemper of approved brand, and shade on wall surface after thoroughly brooming the surface clean of all gease, dirt, loose pieces of scales including preparing the surface even and sand paper smooth, cost of material, labour, complete as per specifications. -wall surface-.(Page No 116., I.No.15.47.1 of KPWD S.R 2016-17).								
		Sqm							
	out side								
	total building surface area						1100.00		
						Total	1100.00	53.00	58300.00
	Basic rate	50.00							
	A.W (6%)	3.00							
	Total rate	53.00							
11	KSRB 15-14.1 : Providing and applying two coats with oil bound washable distemper of approved brand and shade on wall surface including priming coat with distemper primer after throughly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications.(Page No 117., I.No.15.49.1 of KPWD S.R 2016-17).								
		Sqm							
	Inside								
	total building surface area						800.00		
						Total	800.00	75.26	60208.00
	Basic rate	71.00							
	A.W (6%)	4.26							
	Total rate	75.26							
12	KSRB15-3.11 : Providing 20mm thick cement plaster in single coat with cement mortar 1:4, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications..(Page No 114., I.No.15.19 of KPWD S.R 2016-17).**AND** KSRB15-4.4 Extra for providing and mixing waterproofing compound in cement plaster work at one kg per bag or in the proportion recommended by the manufacturers, forcement mortar 1:4, 18mm thick cost of materials complete as per specifications.(Page No 114., I.No.15.26 of KPWD S.R 2016-17).								
		Sqm							
	For OHT-Inside		1	4.4	4.20	1.30	24.02		
						Total	24.02	256.52	6163.00
	Basic rate	242.00							
	A.W (6%)	14.52							
	Total rate	256.52							
13	KSRB 11-5 : Providing and fixing white vitreous china clay, water closet European type (Pedestal type, P-trap) with black solid plastic seat and lid, C.P brass hinges, rubber buffers. 10 litre low level, P.V.C flushing cistern (all are approved make) with fittings, C.I / M.S brackets, 40mm diameter flush bend with fittings and clamps, overflow arrangements with special and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11.(Page No 77., I.No.12.5 of KPWD S.R 2016-17).								
		Nos							
			4				4.00		
						Total	4.00	5437.80	21752.00
	Basic rate	5130.00							
	A.W (6%)	307.80							
	Total rate	5437.80							
14	KSRB 7.3 : Providing and fixing 1mm thick M.S. sheet garage door with frame and diagonal braces of size 40x40x6 mm angle Iron, 3.15mm thick M.S. Gusset plates at the junctions and corners, with handles, stoppers and locking arrangements etc., including applying a priming coat of red lead paint cost of materials, labour, HOM of machinery complete as per specifications. Double leaf door of size 2.4x2.4m. Specification No. KBS 7.9 / 7.12..(Page No 31., I.No.7.3 of KPWD S.R 2016-17).								
		Nos							
	For furnace chamber		1	3.4		2.75	9.35		
						Total	9.35	2471.92	23113.00

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	Basic rate	2332.00							
	A.W (6%)	139.92							
	Total rate	**2471.92**							
15	KSRB 7.4 : Providing and fixing 1mm thick M.S. sheet garage door with frame and diagonal braces of size 40x40x6 mm angle Iron, using M.S. flats 30x6 mm for diagonal braces and central cross pieces 3.15mm thick M.S. Gusset plates at the junctions and corners, with handles, stoppers and locking arrangements etc., including applying a priming coat of red lead paint cost of materials, labour, HOM of machinery complete as per specifications. 1 double leaf door of size 2.4x2.4m. Specification No. KBS 7.9 / 7.12. (P.No. 31, I.No. 7.4 of KPWD S.R 2016-17).								
		Nos							
	For Entrence		1	3.5		2.00	7.00		
						Total	7.00	**2025.66**	**14180.00**
	Basic rate	1911.00							
	A.W (6%)	114.66							
	Total rate	**2025.66**							
16	KSRB 11-11.2 : Providing and fixing white vitreous china clay, flat back wash basin size 630x450mm with a single 15mm C.P brass pillar tap with C.I / M.S brackets, 32 mm C.P. brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11. (P.No. 81, I.No. 12.24 of PWD SR 2015-16)								
		Nos	2				2.00	**3187.42**	**6375.00**
	Basic rate	3007.00							
	A.W (6%)	180.42							
	Total rate	3187.42							
17	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete. (internal work exposed on wall) - 25mm nominal OD pipes. (P.No. 96/I.No.								
		Rmtr	40				40.00	**180.20**	**7208.00**
	Basic rate	170.00							
	A.W (6%)	10.20							
	Total rate	180.20							
18	KSRB13-6.2-3 : Providing and fixing in position brass stop cock of approved quality 25mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.2 / 13.3								
		Nos	6				6.00	**167.48**	**1005.00**
	Basic rate	158.00							
	A.W (6%)	9.48							
	Total rate	167.48							
19	KSRB 11-7.1 : Providing and fixing white vitreous china clay, flat back, lipped front urinal basin of 430x260x350mm with 5 litres PVC automatic flushing cistern, C.I / M.S brackets, standard flush pipe and C.P. brass spreaders with brass unions and G.I. clamps complete painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification								
		Nos	2				2.00	**3145.02**	**6291.00**
	Basic rate	2967.00							
	A.W (6%)	178.02							
	Total rate	3145.02							
20	KSRB 11-15.3 : Providing and fixing 453x357mm dia rectangular shape mirror with plastic moulded frame of approved make and shade with 6mm thick hard board backing including cost of materials, labour complete as per specifications. (P.No.82, I.No. 12.41 of PWD SR								
		Nos	2				2.00	**1250.80**	**2502.00**
	Basic rate	1180.00							
	A.W (6%)	70.80							

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	Total rate	1250.80							
21	KSRB 12-8.2 : Constructing brick masonry inspection chamber 500x700mm, and 450mm depth, (clear inside dimension) for pipeline with one or two inlets, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover with frame (light duty) 455x610mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23kg and weight of frame 15 kg) R.C.C. top slab with cement concrete M 15 with 20mm and downsize granite metal , foundation concrete M 5 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finished smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, curing complete as per specifications.								
		Nos	2				2.00	8258.46	16517.00
	Basic rate	7791.00							
	A.W (6%)	467.46							
	Total rate	8258.46							
22	Providing and fixing to wall, ceiling and floor unplasticised PVC pipes 10.00 kgf/sq.cm working pressure chemp plast / Wavin or equivalent make with pipe fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials,with 110mm outer dia								
		Rmtr							
			1	20.00			20.00	729.28	14586.00
	Basic rate	688.00							
	A.W (6%)	41.28							
	Total rate	729.28							
23	KSRB 7.9 : Providing and fixing M.S.grill work for windows and ventilators weighing 21kg/sqm using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specifications. Specification No. KBS 7.12. (P.No. 32, I.No. 7.9 of PWD SR 2015-16)								
	MS Angle (75x75x6mm) @6.8 Kg/ Mtr	Kgs.	4x8	5+2.5/2		120.00	816.00		
	MS square rod(16x16 mm) @1.58 Kg / Mtr		4x12	3 Avg		144.00	227.52		
	Steel rods 8mm dia @0.39 Kg/ Mtr		4x15	4.5 Avg		270.00	105.30		
					TOTAL		1148.82	82.68	94985.00
	Basic rate	78.00							
	A.W (6%)	4.68							
	Total rate	82.68							
24	Providing and Fixing glass pannel 5.5mm thick to the windows(Item No:371 Pg.No:XIII)								
	50% of the Quantity	Sqm	4	(5)/2	2.50		12.50	650.00	8125.00
25	Providing & FIxing Mosquito mesh shutters made out of Stainless Steel mosquito proof mesh with 95% & above visibility which is fixed to the powder coated aluminium frame 20mm thick of approved shade. The work including fixing the shutters with necessary accessories, to complete as per specification including the labour charges for fixing the shutter to the existing frames.								
		Sqm	4	(5)/2	2.50		25.00	2756.00	68900.00
	Basic rate	2600.00							
	A.W (6%)	156.00							
	Total rate	2756.00							

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
26	KSRB 14.6-1: Providing and laying heavy duty cobble stones 60mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications. Specification No. KBS. (P.No. 101, I.No. 14.6 of CSR 2015-16)								
		Sqm	4	22.00	1.20	0.00	105.60	**966.72**	**102086.00**
	Basic rate	912.00							
	A.W (6%)	54.72							
	Total rate	**966.72**							
27	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete								
		Rmtr	2	62.00	124/0.45		275.00	**331.78**	**91240.00**
	Basic rate	313.00							
	A.W (6%)	18.78							
	Total rate	**331.78**							
	SINKING OF BOREWELL								
28	Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump, MWS of P.W.S.S by vertical electrical sounding by adopting Venner or Schlumberger's method, including reconnaissance survey of geological formation, Gerophysical investigation of existing Ground Wate in the vicinity, its qualityf 1.0 meter in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site., engaging techinical personal and labour required etc., as per Specification and direction **(P.47, I. 9.4) PRED.SR 2012-13**								
		Each							
	Basic Rate	1882.00	1				1.00	**1938.46**	**1938.46**
	A.W 3%	56.46							
	Total	1938.46							
29	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars, cap etc.,) **Page no. 46 / I. 9.1 PRED SR 2012-13**								
	Basic Rate	306.00							
	A.W 3%	9.18							
	Total	315.18							
a	0 to 50 m	Mtr	1.00	50.00			50.00	**315.18**	**15759.00**
	Basic Rate	400.00							
	A.W 3%	12.00							
	Total	412.00							
b	50 to 100 m	Mtr	1.00	50.00			50.00	**412.00**	**20600.00**
	Basic Rate	445.00							
	A.W 3%	13.35							
	Total	458.35							
c	100 to 150 m	Mtr	1.00	50.00			50.00	**458.35**	**22917.50**
	Basic Rate	470.00							
	A.W 3%	14.10							

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	Total	484.10							
d)	150 to 200 m	rm	1.00	50.00			50.00	484.10	24205.00
	Basic Rate	544.00							
	A.W 3%	16.32							
	Total	560.32							
e)	200 to 250 m	rm	1.00	50.00			50.00	560.32	28016.00
30	Supply of ISI mark 175 mm nominal bore medium black ERW casing pipe of 5 mm thick black electric resistance continuous welded mild steel tube material confirming to IS 1387 / 1993 & manufactured from hot rolled steel skelp / stripes in random length of 4 to 7 mts both ends threaded confirming to IS 554 / 1985, one end fixed with a socket and the other and with a plastic protection end (including of all taxes) **SE PRED III NO 84**								
		Rmtr	1.00	54.00			54.00	1325.00	71550.00
31	Providing 250mm dia PVC Pipe **BWSSB SR 14-15 PNO 53SL NO 1**								
		Rmtr							
			1.00	12.00			12.00	1064.00	12768.00
32	Providing 175mm dia ms casing cap **page no 111 it no 85 pred 12-13 sr**								
	Basic Rate	100.00							
	A.W 3%	3.00							
	Total	103.00							
		no	1.00				1.00	103.00	103.00
33	Providing MS Casing pipe collars **page no 111 it no 86 pred 12-13 sr**								
	Basic Rate	150.00							
	A.W 3%	4.50							
	Total	154.50							
			1.00	6.00			6.00	154.50	927.00
34	Supply and delivery at site brand New texmo/ innoval/ Lubi/ Sabar / **Atalanta**/ Calamal/								
	15 HP 30 Stage	NO	1.00				1.00	70600.00	70600.00
35	. KSRB13-3.1: Providing and fixing to wall celling and floor glavanised/ mild steel tubes (medium grade 1.27 kg /mt) B class **50 mm dia** nominal bore with all fittings (earth work in trenches to be measured and paid for separately) including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications **(Page 90 ITEM NO 13.6)**								
	Basic Rate	510.00							
	A.W (6%)	30.60							
	Total	540.60							
		Mtr	1.00	300.00			300.00	540.60	162180.00
36	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor confirming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and Powder coated extrued PVC sheathed suitable for working voltage upto 1100 Volts as per IS - 694 ; 1990 AND CONFORMING TO gtp OFGROUP A P. No. 12/ I No. (2.10.4) 3cx 6.0 Sqm **KPWD Electrical SR 2014-15**								
		Mtr	1.00	620.00			620.00	188.70	116994.00
37	Labour charges for erection of new/ repaired submersible pumpset along with gi pipes inculding transportion each length **pno 558 ino 3 bwssb sr 14-15**								
		NO	1.00	50.00			50.00	88.00	4400.00
38	Supplying and flush polished wood board with out front frount plank made of not less than 15mm thick plank after due groove cutting Finishing with necessary on **fixing the same to the wall using tapered** inverted wooden plugs screws etc., **P No. 44No.6.6.6 KPWD Electrical SR 2014-15**								
	20x20x2.5	Each	1.00				1.00	302.00	302.00

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
39	Supplying of 1.1 KV LT UG cable having aluminium condutor PVC insulated shethed, EXTREDED INNER SHEATHRD galvnised steel,stirp confirming IS 3975;1990 AND extruded PVC outer sheathing armoured cable IS 1554 part 1;1998 and confirming to GTP of group.**P No.55/ I No.7.4.4 (4 core 16 Sqmm) KPWD Electrical SR 2014-15**								
		Mtr	1.00	35.00			35.00	140.40	4914.00
40	Labour charges for laying of 1.1 K.V class UG cable, **P No. 61 / I No. 7.8.1 In existing trencg/duct 6Sqmm to 16 Sqmm) KPWD Electrical SR 2014-15**								
		Mtr	1.00	35.00			35.00	10.80	378.00
41	Digging or trenching of 0.6m deep x 0.5 mtr wide refilling the trench to the required ground level and consolidating etc., complete**P No. 62/ I. No.7.9.4 KPWD Electrical SR 2014-15**								
	For Cutting Road Surface aspalt	Mtr	1.00	30.00			30.00	117.00	3510.00
42	Supplying and fixing of Class A (meaium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class **P. No. 62/ I No.7.12.1 KPWD Electrical SR 2014-15**								
	40mm dia GI pipe	Mtr	1.00	3.00			3.00	345.00	1035.00
43	Supplying and fixing L.T. cast Iron pot head suitable for 1.1 KV class UG cable filled with necessary bituumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc., **P. No.62/ I No. 7.13.2 KPWD Electrical SR 2014-15**								
	16Sqmm	NO	1.00				1.00	280.00	280.00
44	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C cutouts and other equipments on the meter board using 40 mm dia 2.90 mm thick GI pipe 2.5 m long buried in a pit. The pit should be filled with equal propotion of solt and charocoal 150 mm alround the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size, as per ISI specification 7.3.3 IS 732 using 12 mm dia bolts, nuts, washers and check nuts, etc., the pipe shall have 16 throught holes of 122 mm dia, **(P No.55, I No. 7.1) KPWD Electrical SR 2014-15**								
		NO	1.00				1.00	2727.00	2727.00
45	Supplying and fixing of Porcelain fuse channel with cut out on existing wooden / panel using necessary nuts, bolts and washer etc., complete.... **P No44/I No 6.7.4 KPWD Electrical SR 2014-15**								
	100 Amps	Each							
		1.00	3.00				3.00	360.00	1080.00
46	Supplying and fixing of heavy duty glands for ug cable 1.1 kv etc., complete.... **P No62 I No 7.14.2 KPWD Electrical SR 2014-15**								
	25mm dia	Each							
		1.00	6.00				6.00	86.00	516.00
		1.00	6.00				6.00	86.00	516.00
47	Supplying and fixing miniature circuit breakers/solaters on existing MCB distribution boards using necessary fixing materiasl wiring complete as requireds 5 to 32 amps triple pole with all lead and lift, loading, unloading and labour charges etc complete as per specifications **pno 47 IT 6.16.5 KPWD Electrical SR 2014-15**								
		Each	1.00				1.00	1547.00	1547.00
48	Fabrication supplying and mounting MS box of 16 SWG suitable for floor /wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished 2 coats of red oxide primer paint and finally finished with approved colour enamelled metal paint etc., complete box of 21600 sqcm @ Rs.0.33 **P.No. 49, I. No.6.40.2 KPWD Electrical SR 2014-15**								
	16SWG	Sq.Cm	2.00	220.00	60.00		26400.00		
			1.00	450.00	25.00		11250.00		
							37650.00	0.33	12424.50

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
49	KSRB 13-7.1-4: Providing and fixing in position 50mm nominal bore gun metal non-return valve horizontal type of approved make including cost of all materials, labour and HOM of equipments with all leads complete as per specifications NO KBS 13.2.16 / 13.13 **Page No.90 Item No. 13.55 / PWD SR 2016-17**								
	Basic Rate	1496.00							
	A.W(6%)	89.76							
	Total	1585.76							
		NOS	1.00				1.00	1585.76	1585.76
50	Providing NP/CP waste unions conforming to ISI specifications and fixing them in position as per directions including cost of materials, fixtures and conveyance to work spot etc., complete. **P. No.92/ I. No. 13.81.3 PWD SR**								
	Basic Rate	215.00							
	A.W(6%)	12.90							
	Total	227.90							
	50mm dia	NOS	1.00	2.00			2.00	227.90	455.80
51	Gate value 50 mm nominal bore gun metal **P. No.xxiii sl No. 673 PWD SR**								
	50mm dia	NOS	1.00	3.00			3.00	1650.00	4950.00
52	NIPPLE 50 mm nominal bore gun metal **P. No.xxXIXiii FITTINGS PWD SR**								
	50mm dia	NOS	1.00				1.00	104.30	104.30
53	S BEND 50 mm nominal bore gun metal **P. No.xxXIXiii FITTINGS PWD SR**								
	50mm dia	NOS	1.00	3.00			3.00	219.00	657.00
54	TEE 50 mm nominal bore gun metal **P. No.xxXIXiii FITTINGS PWD SR**								
	50mm dia	NOS	1.00				1.00	169.00	169.00
55	Supplying and delivery at site brand new star / Essen/ Lotus/Sun-shines/Adarsh/ GK Controls best indigenous make combined energy meter - cum- control panel board unit of size 600x450 x200 mm minimum mechanically strong vermin and water proof. The unit shall have two detachable doors suitable for operation on 3 ph, 50Hz, 380/440 volts, A.C supply with spring loaded latch, locking device with a key ribs should be provided inside the door, canopy apron and louvers ventilators shall be provided. the combined energy meter cum-control panel board unit suitable for operation. The panel board shall be fabricated on single unit in the above components for suitable pumpset. **PRED Bangalore Circle SE Approved Date 30.07.2010 15HP to 30 HP Star Delta Starter**								
		NO	1.00				1.00	10000.00	10000.00
56	Earth work excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches, 1.5m and above in width, in ordinary soil, exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with all lead upto 50m after breaking of clods complete as per specifications(Pg.**No.5, I.No.2.1**) **(SR of PWD)**								
		Cum	1.00	250.00	0.60	0.75	112.50		
	Basic Rate	157.00							
	A.W(6%)	9.42							
	Total	166.42		-	Per Cmtr		112.50	166.42	18722.00
57	Providing and installing at site of work pvc pipes including cost of pipes and special and labour including lowering into trenches laying true to line level and prefect linking at joints, leak proof including jointing of approved type with all labour and lift charges handling charges including encasing the pipes all round to a depth not less than 15 cms with gravel or selected earth available from the excavation etc. complete PVC pipe of 6kg/cm2 63mm (0.662) (Page no.14, Item No.3.4.2 a) (SR of PRED)								
			1.00	250.00			250.00		
	Basic Rate	112.00							
	A.W (3%)	3.36			Per Rmtr		250.00	115.36	28840.00
	Total	115.36							

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
58	KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms in depth, compacting each deposited layer by ramming after watering with a lead upto 50m and lift upto 1.5m including cost of all labour complete as per specifications Specification No.KBS 2.1(Page No.6, Item No. 2.10)								
	Basic Rate	127.00		Cum	Per Cmtr		112.50	95.40	10733.00
	A.W(6%)	7.62							
	Total	134.62							
59	BESCOM Deposit	L/S	1.00				1.00	13000.00	13000.00
60	PMC & Miscellaneous Charges								
	Grand Total								2200000.00

Certificate:-

1. That the workspot inspected by me and found work is necessary.
3. That the rates are adopted based on the PWD SR of 2016-17
4. That the provisions made in the estimate in econamical way

Asst. Engineer
Project division, Yelahanka
BBMP

AEE
Project division,Yelahanka
BBMP

Executive Engineer
Project division, Yelahanka
BBMP

Administrative Approval

Accorded For 22.00 lakh Rs.
Head of A/C..... P0541
CER NO :..... 77 Dt:.. 29/06/17

TA CE (YNK)

Technical Sanction

Accorded For 22.00 lakh Rs.
Head of A/C..... P0541
CER NO :..... 65 Dt:.. 29/06/17

TA CE (YNK)